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## LABORATORY TEST REPORT



Patient Information	Sample Information	Client/Location Information
Name : Mr Sahil Pravinbhai Mangukiya	Lab Id : 122315302703	Client Name : Shree Clinical Laboratory@IsconTemple SRT
Sex/Age : Male / 22 Y	Registration on : 31-Dec-2023 16:29	Location :
Ref. Id :	Collected at : non SAWPL	Approved on : 31-Dec-2023 19:09 Status : Final
Ref. By :	Collected on : 31-Dec-2023 16:29	Printed On : 01-Jan-2024 11:35
	Sample Type : Serum	Process At : 153. Lab SAWPL Gujarat Surat Adajan

## Immunoassay

Test	Result	Unit	Biological Ref. Interval
Homocysteine, Serum <small>Chemiluminescence</small>	H 25.24	micromol/L	6.0 - 14.8

### Summary and Uses:

- Total Hcy is a thiol-containing amino acid, produced by the intracellular demethylation of methionine to cysteine.
- Elevated levels of t Hcy may be used to exclude or confirm deficiencies of vitamin B12 or folate.
- It is recommended to test in patients using medications that interfere with folate status (methotrexate, antiepileptics), vegetarians without B12 supplementations, unexplained anemia, peripheral neuropathy or myelopathy, recurrent spontaneous abortions or infertility.
- Testing also recommended for patients 40 years of age with coronary artery disease to exclude homocystinuria.
- Elevations in tHcy levels have also been used as an independent risk factor of coronary or cerebral vascular disease. Treatment of moderate hyperhomocystinemia with folic acid supplementation for primary and secondary cardiovascular protection has met with inconsistent results and at present cannot be routinely recommended.

### Limitations:

- The plasma must be separated immediately on collection to avoid continuous synthesis of Hcy by red cells.
- Samples must be immediately stored on ice and serum centrifuged immediately before a complete clot is formed.
- Certain drugs, such as anticonvulsants, methotrexate, or nitrous oxide, may interfere with the assay.
- Cigarette smoking and coffee consumption increase tHcy levels.
- Intraindividual variability is approximately 8%; it can be as much as 25% in patients with hyperhomocystinemia.
- Generally, a single measurement of tHcy is considered adequate.

----- End Of Report -----

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